



## PATENT ABSTRACTS OF JAPAN

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**PURPOSE:** To easily decide on the stable state of a laminar flow by picking up the flow of sample liquid by a television camera which is arranged at right angles to the center axis of the flow of sample liquid and displaying its image on a television monitor.

**CONSTITUTION:** A sample liquid intake 2 and a sheath liquid intake 3 are connected to a nozzle 1 and the sample liquid S flows out of the orifice atop the nozzle 1 while covered with sheath liquid as a fast laminar flow. An image forming lens 5 is arranged on the optical axis O of laser light L projected by a laser light source 4 arranged in the direction intersecting orthogonally with the center axis Z of the flow and a condenser lens 6 and a photoelectric detector 7 are arrayed opposite the light source 4. Further, a photographic lens 8 and a television image pickup tube 9 are arranged

approximately in the direction intersecting orthogonally with the center axis Z and optical axis O. The state of the flow of the sample liquid S covered with the sheath liquid is projected on the television monitor through the image pickup tube 9 and it is judged whether or not the sample liquid S flows properly on a measured waveform display tube which displays the output of the detector 7.

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